



**JEFFREY A. LEED**

President – Leed Environmental, Inc.

M.S. Environmental Science, 1978, Florida Institute of Technology

B.A. Biology, 1976, Western Maryland College (now known as McDaniel College)

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Mr. Leed has more than 30 years of diverse, progressively responsible experience in planning, development, management, and implementation of environmental projects and programs for business and industry, commercial establishments, residential property owners, and other clients. Mr. Leed's environmental consulting and project management responsibilities have included:

- Extensive participation in environmental project management, coordination, and consulting activities related to more than 75 Superfund sites;
- Extensive involvement in RCRA hazardous waste management activities (including project management activities, audits, site assessments, compliance services, liaison with regulatory agencies, corrective action program development and implementation, remediation, and facility closures) at more than 55 regulated facilities;
- Extensive project management services and regulatory compliance activities related to solid waste, groundwater, storm water, wastewater, and others; and
- Extensive environmental auditing, due diligence, and site investigation services.

Mr. Leed has served for 17 years as the President of Leed Environmental, Inc., a small business located in Reading, Pennsylvania. Prior to founding Leed Environmental, Inc., Mr. Leed was employed in the lead industry by General Battery Corporation and Exide Corporation during the period from 1979 to 1992, followed by a consulting assignment to Exide Corporation, where his environmental management responsibilities included developing, implementing, and directing corporation-wide environmental programs, including auditing and corrective measures, related to lead and other contaminants in the areas of solid waste and hazardous waste management, Superfund programs, site assessments, remedial activities, wastewater treatment, storm water, and other environmental compliance programs.

**Work Experience**

**LEED ENVIRONMENTAL, INC.; Reading, Pennsylvania  
December 1993 – Present**

**President:** Founder of Leed Environmental, Inc. in December 1993. Responsibilities for clients have included project management, environmental consulting, and litigation support related to CERCLA, RCRA, and brownfields sites; storm water permitting and treatment; wastewater treatment facility permitting and Consent Order negotiation; UST assessment and closure; regulatory compliance program development; waste minimization and source reduction evaluations; strategic planning; site assessment and remediation; environmental monitoring, auditing, and due diligence services; and others. Projects have involved extensive interaction with environmental managers and business leaders, regulatory agencies, technical personnel, contractors, consultants, PRP Steering and Technical Committees, and legal advisors. Current responsibilities related to CERCLA include extensive project coordination activities at Superfund sites involving large groups of PRPs.

Other recent responsibilities include consulting services related to RCRA compliance activities, waste delisting, other Superfund technical services, technical support for insurance companies, preparation of environmental newsletters, development and implementation of environmental audits, corporate management and strategic planning, technical critiques of work performed by other consultants, and others.

**ENVIRO-METALS SERVICES, INC.; Reading, Pennsylvania  
October 1992 – December 1993**

**President:** Co-founder of Enviro-Metals Services, Inc. in October 1992. Responsible for short-term and long-term strategic planning, marketing and sales of environmental services to prospective clients, interaction with governmental regulatory agencies, and implementation and monitoring of projects to successful completion.

Projects for clients included Superfund activities (RI/FS implementation, removal and remedial program development, PRP group coordination/management and others), RCRA hazardous waste management (compliance program development, corrective action activities, regulatory liaison, and others), storm water programs (permitting, development of best management practices plans, and others), waste minimization/ pollution prevention plan development, environmental audits, Pennsylvania residual waste compliance program development, wastewater treatment services, and others.

**EXIDE/GENERAL BATTERY CORPORATION; Reading, Pennsylvania  
1979 – 1992**

**Director – Environmental Resources (1991 – 1992)**  
**Director – Waste Management (1987 – 1991)**  
**Manager – Wastes Disposal (1981 – 1987)**  
**Environmental Project Leader (1979 – 1981)**

**Management:** Directed corporate staff, plant management, environmental consultants, and remediation contractors in all activities related to development and implementation of environmental compliance activities for solid/hazardous waste management, Superfund, wastewater treatment, toxic substances management, underground storage tanks, storm water management, employee/community right-to-know, and surface water, groundwater, and soil contamination assessment and remediation.

Responsibilities included policy and compliance strategy development, implementation of regulatory programs, permitting, auditing, due diligence for purchase and divestiture of facilities, pollution prevention/waste minimization activities, and coordination of activities with legal counsel, regulatory officials, and consultants at a nationwide network of more than 250 battery manufacturing facilities, secondary lead reclamation facilities, branch locations, service centers, distribution centers, and warehouses.

**Superfund:** Extensive experience in program management at numerous company CERCLIS facilities and CERCLA sites, including completion of emergency response activities, remedial investigations, feasibility studies, risk assessments, site remediation, and litigation support for abandoned secondary lead smelters, battery breakers, landfills, storage facilities, waste oil recycling facilities, drum reconditioning facilities, and others.

Directed company participation in EPA Site program to evaluate innovative treatment technology.

Responsibilities included extensive representation on PRP Executive, Technical, and Steering Committees, including Chairman of Technical Committee at one site, representing over 40 PRPs.

**Remedial Programs:** Developed, negotiated, and managed environmental programs for soil and groundwater assessment/remediation associated with plant closures and/or cleanups in Pennsylvania, Texas, California, South Carolina, Louisiana, Alabama, Oregon, Iowa, Kansas, and Indiana.

Directed the design/implementation of plans for assessment, remediation, and closure of landfills and surface impoundments in Pennsylvania, Louisiana, South Carolina, Texas, and Iowa.

**Waste Management:** Developed, implemented, and directed regulatory compliance activities pursuant to state, federal, and local waste/wastewater regulations, including permitting of two RCRA TSD facilities and closure of four RCRA TSD facilities.

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Directed the design/implementation of wastewater treatment facilities, including groundwater recovery and treatment facilities.

Prepared numerous technical position papers for endorsement by battery industry officials and for use in commentaries to regulatory officials.

Managed waste minimization and toxicity reduction projects, including successful negotiation with EPA to obtain \$3 million per year cost savings, associated with "delisting" of smelter waste.

Served as secretary on Berks County committee of industrial representatives in preparation/review of county assessment of waste generation and disposal alternatives.

### **FLORIDA INSTITUTE OF TECHNOLOGY; Melbourne, Florida 1977 – 1979**

*Post-Graduate Assistant: Department of Environmental Science and Engineering, 1979:*

Co-authored final report of water quality/supply study of Lake Washington, including:

- Interpretation/evaluation of trends in water quality data, assessment of effects of canal drainage, and development of recommendations for correction.
- Computer programming to model canal drainage/groundwater seepage for use in water and nutrient budgets.

*Graduate Assistant: Department of Environmental Science and Engineering, 1977 – 1978:*

Performed yearlong field/laboratory study of Lake Washington (source of potable water for 120,000 Brevard County residents) as part of a highly controversial water quality and supply evaluation for the City of Melbourne.

Monitored industrial waste loadings from Harris Corporation and municipal waste loadings from West Melbourne facility to evaluate treatment techniques and ensure safe levels of contaminants in effluents.

### **Project Experience**

#### ***Project Management***

Mr. Leed has frequently been requested to provide active oversight management and project coordination services for major environmental projects. Mr. Leed's clients often include Steering Committees composed of large and small companies who have been named as potentially responsible parties for assessment and remediation of federal and state Superfund sites. At several sites, Mr. Leed has been involved with the Steering Committees for more than 10 years.

#### ***Superfund***

Mr. Leed has also frequently been requested to provide environmental consulting and project management services at federal and state Superfund sites. To date, Leed Environmental, Inc. has been involved at more than 70 sites, which include lead-acid battery recycling and secondary lead reclamation facilities, landfills (municipal waste, industrial waste, and hazardous waste), waste oil recycling operations, drum reconditioning facilities, research and development facilities, waste storage and treatment sites, solvent reclamation facilities, and others. Mr. Leed's Superfund site experience includes:

- Participation on steering, executive, technical, and allocation committees;
- Development of innovative technologies and cost/feasibility evaluations;
- Negotiation with regulatory agencies;
- Coordination of technical work with regulatory agencies;
- Preparation of technical commentaries on proposed remedial plans, consent orders, and other technical documents and reports;

- Various services related to remedial investigations, feasibility studies, risk assessments, removal and remedial activities, groundwater monitoring programs, and operation and maintenance activities;
- Bid request preparation;
- Contractor selection/oversight;
- Laboratory selection/oversight;
- Wastewater and storm water treatment services;
- Coordination of import/export activities;
- Access agreement development/implementation and coordination of efforts with off-site property owners;
- Litigation support;
- PRP research and interviews;
- Preparation of volumetric "waste-in" lists for use in allocation of liability; and
- Others.

### ***RCRA Hazardous Waste Facilities***

Since the promulgation of federal hazardous waste regulations under the Resource Conservation and Recovery Act (RCRA) in 1980, Mr. Leed has worked on more than 55 hazardous waste sites, which include generator locations, storage sites, and landfills and other treatment/disposal facilities. Mr. Leed's hazardous waste experience includes a wide range of regulatory compliance, site assessment, and environmental management and consulting services, including:

- Pre-acquisition due diligence;
- Site assessments;
- Audits/compliance reviews;
- Development, implementation, and management of compliance activities (generators, transporters, and treatment/disposal facilities);
- Contingency plan preparation and implementation;
- Permitting;
- Financial assurance services;
- Waste analysis plan preparation;
- Closure plan development;
- Work Plan preparation;
- Bid request preparation and contractor selection/oversight;
- Soil assessment and cleanup;
- Building decontamination and demolition;
- Lagoon closures;
- Landfill closures;
- Tank upgrades and closures;
- Groundwater monitoring and recovery/treatment systems;
- Liaison with regulatory agencies;
- Consent Order negotiation;
- Waste delisting;
- Coordination of spill cleanup efforts;
- Litigation support;
- Training;
- Reporting; and
- Others.

### ***Landfill Experience***

Mr. Leed has provided technical services at approximately 50 landfill sites that have included disposal areas (containing municipal waste, industrial waste, hazardous waste, or waste mixtures). Mr. Leed's project management and environmental consulting services related to the landfills have included:

- Preliminary site characterizations;
- Detailed site assessments and evaluations;
- Development and implementation of groundwater monitoring programs;
- Groundwater quality studies;
- Bid request preparation and contractor selection oversight;
- Development and implementation of remedial activities for groundwater;
- Development and implementation of landfill closure plans;
- Development and implementation of corrective action requirements;
- Development and implementation of plans to excavate/dispose of contaminated materials;
- Management of remedial design activities and landfill cell construction;
- Waste delisting activities;
- Leachate management and treatment programs;
- Preparation of permit applications;
- Preparation of best management practices plans and storm water management programs;
- Consent order negotiation/compliance;
- Long-term operation and maintenance activities; and
- Others.

***Brownfields***

Mr. Leed has been retained by clients to perform project management and environmental consulting services as part of efforts to assess and cleanup abandoned industrial properties, more commonly known as brownfields, to return the properties to productive use. For example, at the former Magic Marker Site in Trenton, New Jersey, Mr. Leed was retained by a successor company to a former property owner to manage the company's interest in assessing potential contamination at the site and remediating environmental issues as part of property redevelopment plans.

***Wastewater***

Mr. Leed has provided project management and environmental consulting services related to wastewater issues for Superfund sites, RCRA hazardous waste management facilities, and battery manufacturing facilities, secondary lead smelters, battery warehouses, distribution centers, and service centers in Alabama, Belgium, California, Colorado, Kansas, Kentucky, Indiana, Iowa, Pennsylvania, South Carolina, Tennessee, Texas, and Washington. Some of the services that have been provided by Mr. Leed have included:

- Preparation of permit applications;
- Negotiations of permit terms and conditions;
- Regulatory liaison;
- Development of sampling/analysis plans;
- Development/implementation of regulatory compliance programs;
- Oversight of design, engineering, and construction of treatment facilities and upgrades;
- Troubleshooting of wastewater treatment facilities;
- Evaluation of sludge dewatering/disposal options;
- Toxicity reduction evaluations;
- Wastewater conservation/reuse programs;
- Consent Order negotiation/compliance;
- Sampling and laboratory analysis;
- Closure of wastewater treatment tanks and surface impoundments;
- Bid request preparation and contractor selection oversight;
- Bench scale laboratory testing;
- Preparation of wastewater treatment system operations manuals; and
- Operator training.

***Storm Water***

Mr. Leed has provided project management and environmental consulting services on storm water projects for landfills, battery manufacturing facilities, secondary lead smelters, and scrap metal recycling facilities in Arizona, Belgium, California, Kansas, Kentucky, Indiana, Iowa, Louisiana, Ohio, Pennsylvania, South Carolina, Tennessee, and Texas. Services that have been provided have included:

- Preparation of notices of intent/general permits;
- Preparation of NPDES permit applications;
- Preparation of Pollution Prevention Plans;
- Liaison and negotiation with regulatory agencies;
- Development of sampling/analysis plans;
- Development of regulatory compliance programs;
- Preparation of corporate storm water compliance manual;
- Oversight of design, engineering, and construction of storage tanks and treatment facilities;
- Evaluation of storm water treatment options;
- Evaluation of storm water treatment facility upgrades;
- Consent Order negotiation/compliance;
- Training programs; and
- Preparation of Best Management Practices Plans

***Groundwater***

On groundwater issues, Mr. Leed has provided environmental consulting activities and project management services for landfills, battery manufacturing facilities, a plastic extrusion facility, secondary lead smelters, scrap metal facilities, and Superfund sites in Alabama, California, Kansas, Indiana, Iowa, Louisiana, Pennsylvania, South Carolina, and Texas. Services have included:

- Preparation of sampling and analysis plans;
- On-site and off-site investigations;
- Oversight of contractor monitoring well installation;
- Development/implementation of regulatory compliance programs;
- Oversight of design, engineering, and construction of pump-and-treat systems;
- Oversight of design, engineering, and construction of groundwater filtration systems;
- Consent Order negotiation/compliance;
- Groundwater quality assessment reports for metals and organics; and
- Review of site assessment reports and development of technical critiques.

***Proposed Regulations – Technical Comment Preparation***

Mr. Leed has prepared technical comments and position papers which have been submitted to the U.S. Environmental Protection Agency and state regulatory agencies related to the following proposed rules and regulations:

- Superfund:
  - Settlement Policy on the Performance of Risk Assessments for Superfund sites.
- Hazardous Waste:
  - RCRA Corrective Action Requirements for Solid Waste Management Units;
  - Revisions to EPA's Definition of Solid Waste (1983 and 1993);
  - Regulations Implementing EPA's Land Disposal Restrictions;
  - Land Disposal Restrictions for Newly Identified and Listed Hazardous Wastes and Hazardous Soil;
  - Land Disposal Restrictions for Newly Listed Wastes and Hazardous Debris;
  - Toxicity Characteristic Leaching Procedure (TCLP);
  - Hazardous Waste Identification Rule;

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- Proposed Rulemaking for Owners/Operators of Hazardous Waste Incinerators and Burning of Hazardous Waste in Boilers and Industrial Furnaces (and negotiation with EPA on technical amendments to regulations); and
- Proposed Pennsylvania (PK4) Hazardous Waste Regulations (including participation on Pennsylvania DEP/Industry Work Group).
- Wastewater:
  - Development of EPA Effluent Guidelines for the Lead-Acid Battery Manufacturing Industry.
  - Development of EPA Effluent Guidelines for the Secondary Lead Industry.
  - Development of Pennsylvania DER Water Quality Toxics Management Strategy

### ***Environmental Audits***

Mr. Leed has developed, managed, and performed environmental audits and audit programs, conducted environmental audits and due diligence assessments for clients related to the following types of facilities:

- Landfills and treatment facilities;
- Contaminated real estate;
- Secondary lead smelters;
- Battery breakers;
- Battery manufacturing facilities, distribution centers, service centers, and related operations; and
- Others.

### **Education**

M.S. Degree, 1978, Florida Institute of Technology, Melbourne, Florida. Major: Environmental Science. Sixty-two hours of course work with 3.95 GPA. Nominated to 1978 – 1979 *Who's Who Among Students in American Colleges and Universities*. Thesis research to determine relationships between land use activities and levels of trace metals in surface waters, sediments, and fish of the upper St. John's River and to evaluate the role of natural processes (e.g., the iron-phosphate cycle, inputs from non-artesian groundwater or bank seepage, complexation with dissolved organic compounds, increased land runoff, and resuspension of bottom sediments) in the regulation of surface water levels of trace metals.

B.A. Degree, 1976, Western Maryland College (now known as McDaniel College), Westminster, Maryland. Major: biology. Courses in environmental analysis, including water quality study of Piney Run Reservoir. Honorary member Tri-Beta Biological Society. Dean's List – junior and senior years. Independent research to determine effects of heavy metal water pollutants on bacterial populations.

Completed courses offered by private companies, universities, associations, and governmental agencies, including:

- Hazardous waste (including facility permitting);
- Hazardous materials/DOT regulations;
- Groundwater monitoring/well technology;
- Superfund;
- XRF lead/lead-based paint testing;
- Management/professional development;
- Finance and accounting; and
- Environmental law.

### **Professional Memberships**

- Florida Academy of Sciences.
- Berks County (Pennsylvania) Chamber of Commerce Solid Waste Task Force, Secretary.
- Hazardous Materials Council – Manufacturers' Alliance for Productivity and Innovation, Inc.
- Pennsylvania Chamber of Business and Industry Hazardous Waste Landfill Siting Task Force.
- Pennsylvania DER/Industry Work Group – PK4 Hazardous Waste Regulations.

**Professional Certifications and Registrations**

- OSHA 40-hour Hazardous Waste Operations and Emergency Response Training (HAZWOPER).
- OSHA 8-hour Annual Refresher Hazardous Waste Site Worker Training.

**Publications and Presentations**

Leed, J.A. 2002. "Successful Remediation Completed at Tonolli Corporation Superfund Site." In The Battery Man. G.C. Ames, ed. Vol. 44, No. 4, p. 34 – 42.

Smith, W.C. and J.A. Leed. 1992. "Resource Recovery of Lead from Battery Casings – Incorporating Emerging Technology into the Superfund RI/FS Process." Presented at Second Annual Caribbean Haztech Environmental Conference. San Juan, Puerto Rico.

Leed, J.A. 1988. "RCRA Hazardous Waste Regulations: Impact on the Secondary Lead (Recycling) Industry in Pennsylvania." In Hazardous and Industrial Waste – Proceedings of the 29<sup>th</sup> Mid-Atlantic Industrial Waste Conference. M.M. Varma and J.H. Johnson, eds. Hazardous Materials Control Research Institute, p. 265 – 279.

Leed, J.A. and T.V. Belanger. 1981. "Iron, Copper, and Zinc in the Water, Sediment, and Fishes of the Upper St. John's River Basin, Florida, and Their Relationship to Watershed Land Use." American Fisheries Society Warm Water Streams Symposium, Knoxville, Tennessee, p. 70 – 79.

Leed, J.A. and T.V. Belanger. 1981. "Selected Trace Metals in the Upper St. John's River and Their Land Use Relationship." In Florida Scientist. 44(3): 136 – 150.